

I claim:

1. A process for producing a metallic honeycomb body, which comprises the following steps:

providing metal foils and forming a void in at least one of the metal foils;

subsequently structuring the metal foils at least partially;

processing the at least partially structured metal foils with a process selected from the group of stacking and winding to form a honeycomb structure with passages for conducting a gas therethrough, and to place the at least one metal foil such that the void defines a receptacle extending into an interior of the honeycomb structure and being configured to receive therein a sensor device;

providing a tubular casing with an opening and introducing the honeycomb structure into the tubular casing, with the opening at least partly aligned with the receptacle; and

connecting the metal foils and the tubular casing with a suitable joining technique.

2. The process according to claim 1, which comprises forming the at least partially structured metal foils to form a

honeycomb body for a catalytic converter forming passages for an exhaust gas from an internal combustion engine.

3. The process according to claim 1, which comprises forming the receptacle to define a blind bore.

4. The process according to claim 1, wherein the metal foils have a thickness of less than 0.03 mm.

5. The process according to claim 1, which comprises stamping the voids from the metal foils.

6. The process according to claim 1, wherein the processing step comprises initially stacking the metal foils and subsequently winding in an S shape.

7. The process according to claim 6, wherein the voids are U-shaped recesses.

8. The process according to claim 7, which comprises forming the recesses of adjacent metal foils with mutually different depths.

9. The process according to claim 6, which comprises forming the receptacle, at least in sections thereof, to follow a profile of the metal foils.

10. The process according to claim 9, which comprises inserting a sensor having a shape corresponding to a shape of the receptacle.

11. The process according to claim 1, wherein the processing step comprises initially stacking the metal foils and arranging the metal foils to run in an involute form from an inside outward towards the tubular casing.

12. The process according to claim 11, wherein the voids are U-shaped recesses.

13. The process according to claim 12, which comprises forming the recesses of adjacent metal foils with mutually different depths.

14. The process according to claim 11, which comprises forming the receptacle, at least in sections thereof, to follow a profile of the metal foils.

15. The process according to claim 14, which comprises inserting a sensor having a shape corresponding to a shape of the receptacle.